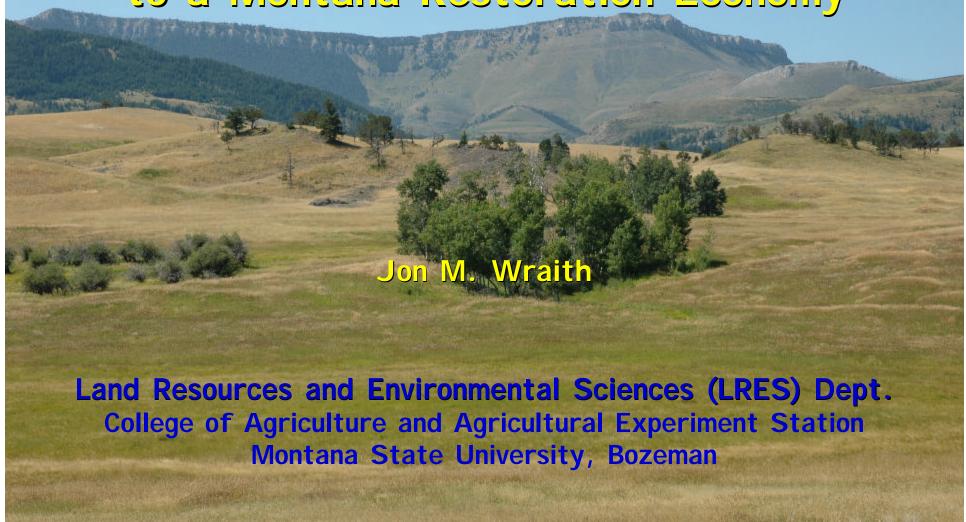


Historic, Current, and Future Contributions to a Montana Restoration Economy



Land Grant Mission

"The College of Agriculture (CoA) and the Montana Agricultural Experiment Station (MAES) generate and disseminate superior knowledge and technological solutions to increase the competitiveness of Montana's agricultural and natural resources, preserve environmental quality, and improve the quality of life for all our citizens."

"Montana State University provides education, research, and extension/outreach programs focused to meet the changing needs of Montana."

Long-term Leadership

1905: F. W. Traphagen sought permission from F.B. Linfield to publish MAES experimental data pertaining to the impacts of smelter smoke, tailings, and waters on vegetation and animal life in the Deer Lodge Valley.

MAES and MSU personnel played significant roles in the infamous federal "smelter smoke" lawsuit, in which the Anaconda Trust was charged by Deer Lodge Valley farmers with damaging vegetation, cattle, and sheep.

Working extensively in Clark Fork Basin since 1980s.







Capabilities: Integrated Disciplines

Restoration/Reclamation

Restoration Ecology
*Reclamation Science

Environmental Risk Analysis

Soil Science

Chemistry

Physics

Microbiology

Nutrient Cycling

Pedology/Landscape Analysis

Ecology/Mycorrhizae

Spatial Analysis

Remote Sensing

GIS and GPS

Spatial Modeling

Environmental Statistics (3)

Water and Hydrology

Water Quality

Hydrology

Biogeochemistry

Limnology

Fish Biology and Mgt. (3)

Watershed Analysis/Modeling

Plant/Vegetation Science

Plant Ecology

Riparian Ecology

Mycorrhizal Ecology

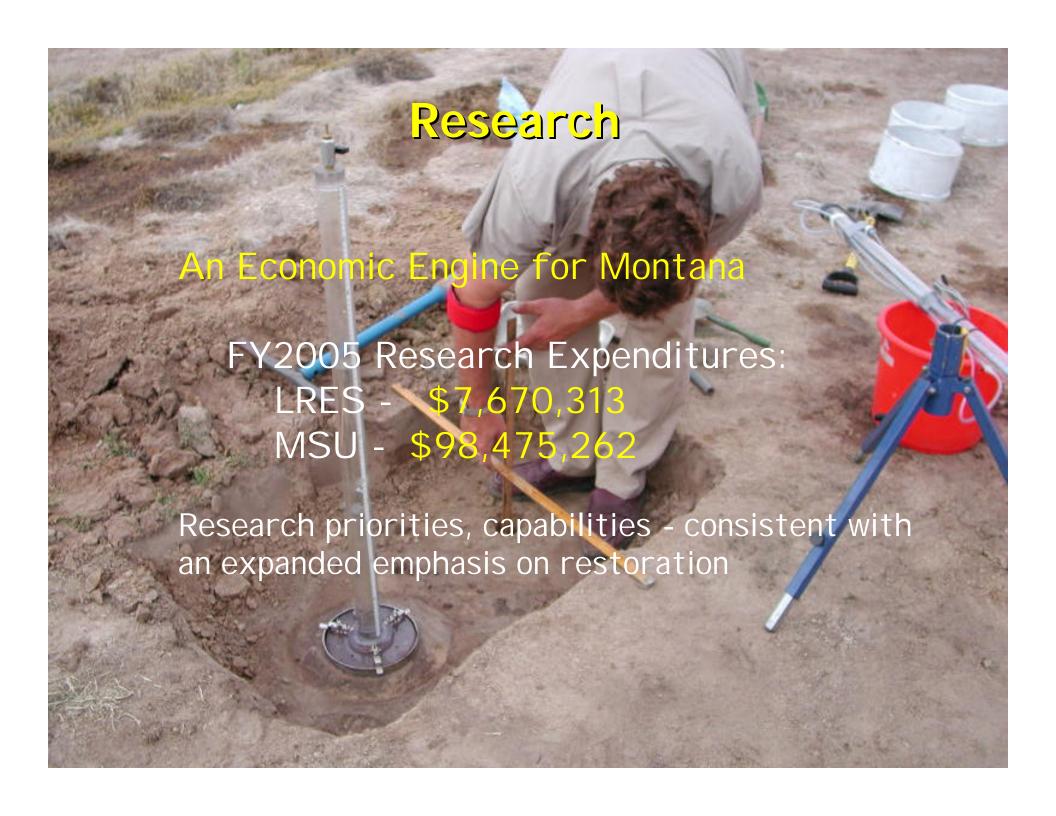
Weed Ecology/Management (3)

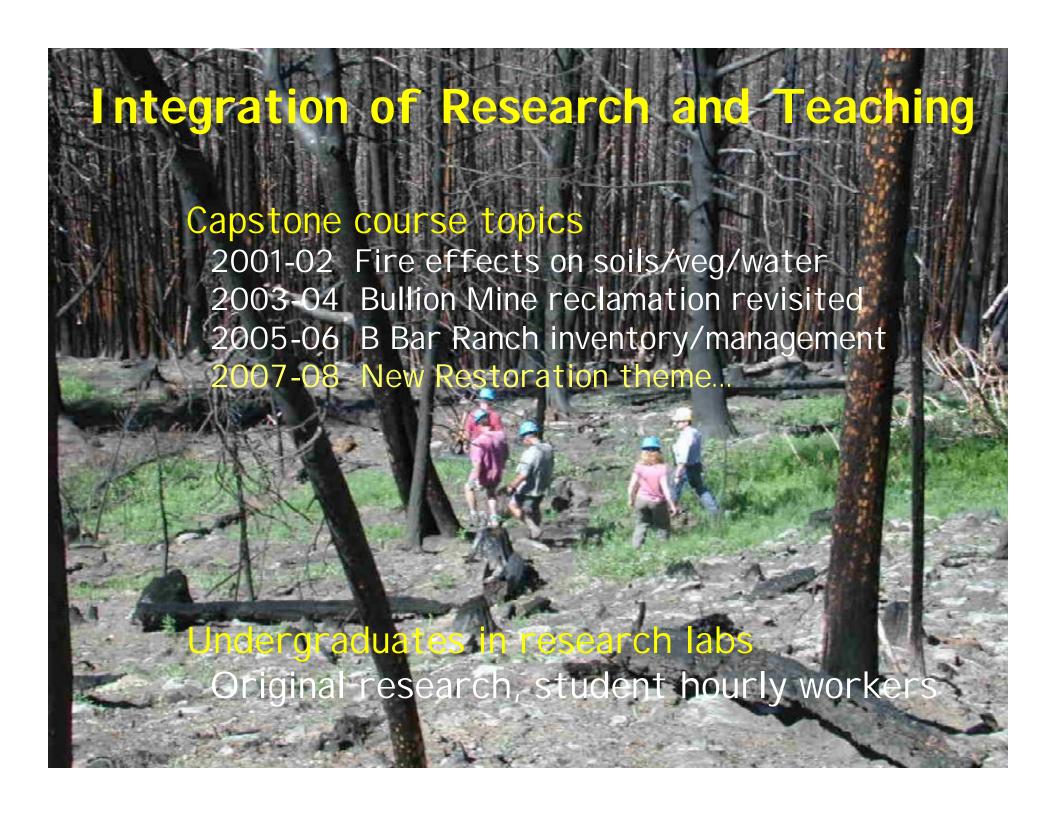
Soil/Plant Nutrition

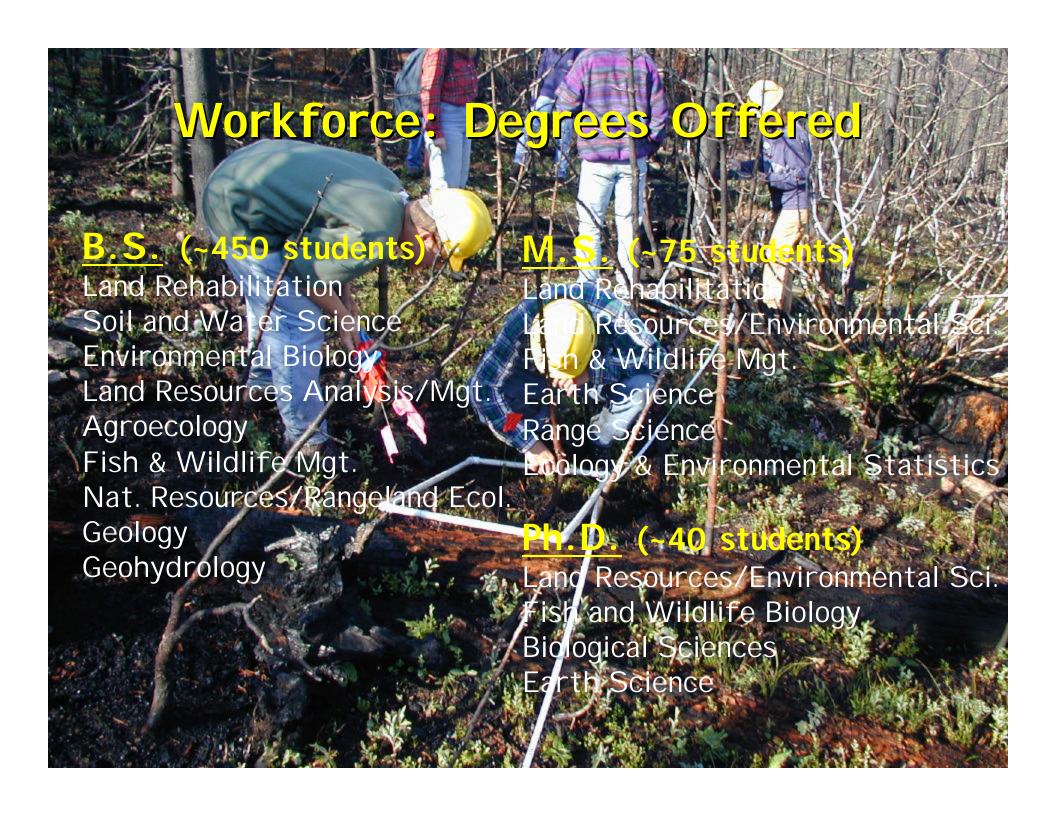
Wildlife and Entomology

Wildlife Science/Management (5)

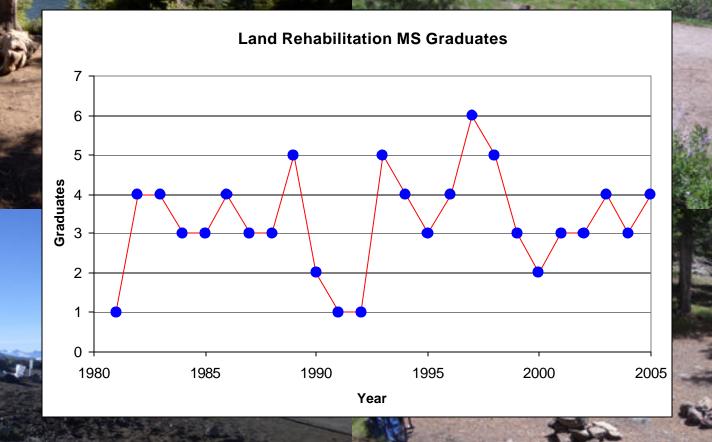
Entomology and Biocontrol (5)







Workforce: Land Rehabilitation M.S.



83 M.S. graduates. Many are leaders in industry, agencies, academia.



Research and Technology Transfer

Issued patents
Issued foreign patents
Pending US patents
Pending foreign patents
Issued trademarks

Exclusive licenses
Non-exclusive licenses
Experimental licenses
Options to lease

47

38

86

60

5

72 (52 MT)

5 (1)

5 (2)

27 (15)





Solutions: Public-Private Partnerships



